

PCT10

ENTERED

RAW SEQUENCE LISTING

5 <120> TITLE OF INVENTION: Reg-Binding Protein

3 <110> APPLICANT: OKAMOTO, Hiroshi

PATENT APPLICATION: US/10/009,178

DATE: 03/13/2002 TIME: 13:58:37

Input Set : A:\10009178.txt

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                                                           Met Thr Gly
     40 tat acc atg ttg cgg aat ggg gga gtg ggg aac ggt ggt cag acc tgt
     41 Tyr Thr Met Leu Arg Asn Gly Gly Val Gly Asn Gly Gly Gln Thr Cys
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     44 atg ctg cgc tgg tcc aac cgc atc cgg ctg acc tgg ctg agt ttc acg
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    48 ctg ttc atc atc ctg gtc ttc ttc ccc ctc att gcc cac tat tac ctc
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    49 Leu Phe Ile Ile Leu Val Phe Phe Pro Leu Ile Ala His Tyr Tyr Leu
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    52 acc act ctg gat gag gca gat gag gcc ggc aag cgc atc ttt ggc ccc
                                                                          368
    53 Thr Thr Leu Asp Glu Ala Asp Glu Ala Gly Lys Arg Ile Phe Gly Pro
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     56 cgg gct ggc aac gag ctc tgt gag gta aag cac gtc cta gat ctt tgt
                                                                          416
     57 Arg Ala Gly Asn Glu Leu Cys Glu Val Lys His Val Leu Asp Leu Cys
    60 cgg atc cgc gag tct gtg agc gaa gag ctt cta cag cta gaa gcc aag
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    61 Arg Ile Arg Glu Ser Val Ser Glu Glu Leu Leu Gln Leu Glu Ala Lys
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    64 cgg cag gag ctg aac agc gag att gcc aag cta aac ctc aag att gaa
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70					120					125					130		
72	aag	aat	gtc	att	agc	cag	aca	gag	cac	tcc	tac	aag	gag	ctg	atg	gcc	608
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77	Gln	Asn	Gln	Pro	Lys	Leu	Ser	Leu	Pro	Ile	Arq	Leu	Leu	Pro	Glu	Lvs	
78			150		_			155			•		160			-1 -	
80	gat	gac	gct	ggc	ctt	cca	ccc	ccc	aaσ	atc	act	caa	ggt		caa	cta	704
81	Asp	asp	Āla	Glv	Leu	Pro	Pro	Pro	Lvs	Val	Thr	Ara	Gly	Cvc	Δra	T.011	704
82	•	165		4			170			,		175	011	Cys	ni 9	пси	
84	cac		tac	ttc	σat	tac		cat	tac	cct	cta		tct	aaa	+++	aat	752
85	His	Asn	Cvs	Phe	Den	Tur	Ser	Ara	Cvc	Dro	Tou	mbr.	Ser	21	Dha	Dec	/52
	180		0,5	1110	пор	185	JCI	ALY	Cys	FIO	190	TIII	261	СТУ	Pne		
		++~	a+a	+-+	<i>a</i> - <i>a</i>		~~~	~~~								195	
80	y LC	Dho	y.c.	m _{rr}	yac Nan	Com	yac	cag	DI-	gcc	דננ	999	agc	tac	ctg	gac	800
90	vaı	FIIC	Val	TAT		ser	ASP	GIN	Pne		Pne	GTA	Ser	Tyr		Asp	
	-a+	++-			200					205					210		
92	CCT	ttg	gtc	aag -	cag	gct	ttt	cag	gct	aca	gtg	aga	gcc	aac	gtt	tat	848
	PIO	ьeu	vaı		GIn	Ala	Phe	GIn		Thr	Val	Arg	Āla	Asn	Val	\mathtt{Tyr}	
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102		245					250					255					
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105	Leu	His	Ser	Leu	Pro	His	Trp	Arg	Thr	Asp	Gly	7 His	Asn	His	Val	İle	
106	260					265	;				270)				275	
108	atc	aat	ctg	tcc	cgg	aag	tca	gac	aca	caa	aat	: tta	ctg	tac	aat	gtc	1040
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116	tac	aga	qct	qqc	ttt	gac	tta	at.t			cca	ctt	atc			atg	1136
117	Tvr	Arq	Āla	Glv	Phe	Asp	Teu	Val	Val	Ser	Dro	. T.A.	Val	ui c	אור א	Met	1130
118	- 4 -	5	310					315		OCI	110	, nea	320	1112	, ATC	Met	
	tet	gaa			ttc	ato	(Taa			cat	α+ ·	- a ~+		+++	+	ctt	1104
121	Ser	Glii	Pro	Acn	Phe	Mo+	وان دا ای	TIA	Dra	λ~~	y Ld	mu-	. all	Dh -	. cca	Leu	1184
122		325			2110	1100	330	110	110	A1 9	٧al	335		rne	ser	ьeu	
	aaa			a a a	a s	~		~ ~~		a+-					_		1000
125	233	Ara	99°	gay	9aa	yad c1	Cad	yag	aag	ctg	999	gtg	rgg	aga	ggc	aga	1232
175	340	ALG	ату	GIU	GIU			GIU	ьys	ьeu			Trp	Arg	GLy	Arg	
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120	Doc	Dec	D	ggc	rgg	ggt	gct	ggc	ccc	tag	acta	ggg	tgct	gacc	CC		1279
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Input Set : A:\10009178.txt

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	-		_							_				-	-		
	6 ctactatttt tgttgccaca ggctttaaag aaactttctg agtgggtggg gcc 8 cttatctttc tctcctccaa atgaggagtt aaaaatgtta ctaaattgcc cgc																
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	Leu		Leu	гля	Asn	vaı		ser	GIN	Thr	GIU		Ser	Tyr	ьуs	GIU	
176	T a	130	31.	~1 <u>~</u>	2 ~ ~	~1 <u>-</u>	135	T	T 0	C	T 0	140	т1 о	7 ~~	T 011	T 0.11	
	145	Met	Ala	GIII	ASII	150	PIO	гус	ьeu	Ser	155	PIO	TIE	Arg	ьeu	160	
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182	PIO	GIU	цур	ASP	165	Ата	GLY	ьeu	PIO	170	PIO	ту	val	TIII	175	GLY	
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			ьeu						1,85		AIG	Cys	PIO	190	T 111T	261	
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	225	· u _	-1-	, 41		230	.,0		****	110	235	O _I S	БСС	-1-	·u_	240	
		Val	Glv	Glu	Tle		Glu	Pro	Ala	Val		Gln	Pro	Ala	Asp		
197			- - 1		245					250					255		
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Input Set : A:\10009178.txt

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233				49									
235 ggt cag acc tgt atg 236 Gly Gln Thr Cys Met 237	5	10	var gry Asn gry 15										
236 Gly Gln Thr Cys Met 237 20 239 ctg agt ttc acg ctg 240 Leu Ser Phe Thr Leu 241 35 243 cac tat tac ctc acc 244 His Tyr Tyr Leu Thr 245 50 247 atc ttt ggc ccc cgg 248 Ile Phe Gly Pro Arg 249 65 251 cta gat ctt tgt cgg 252 Leu Asp Leu Cys Arg 253 80 255 cta gaa gcc aag cgg 256 Leu Glu Ala Lys Arg 257 100 259 ctc aag att gaa gcc 260 Leu Lys Ile Glu Ala 261 115 263 ctg ctg cag ctc aag 264 Leu Leu Gln Leu Lys 265 130 267 gag ctg atg gcc cag 268 Glu Leu Met Ala Gln 269 145	*			97									
237 20 239 ctg agt ttc acg ctg 240 Leu Ser Phe Thr Leu 241 35 243 cac tat tac ctc acc 244 His Tyr Tyr Leu Thr 245 50 247 atc ttt ggc ccc cgg 248 Ile Phe Gly Pro Arg 249 65 251 cta gat ctt tgt cgg 252 Leu Asp Leu Cys Arg 253 80 255 cta gaa gcc aag cgg 256 Leu Glu Ala Lys Arg 257 100 259 ctc aag att gaa gcc 260 Leu Lys Ile Glu Ala 261 115 263 ctg ctg cag ctc aag 264 Leu Leu Gln Leu Lys 265 130 267 gag ctg atg gcc cag 268 Glu Leu Met Ala Gln 269 145				<i>J</i> /									
239 ctg agt ttc acg ctg 240 Leu Ser Phe Thr Leu 241 35 243 cac tat tac ctc acc 244 His Tyr Tyr Leu Thr 245 50 247 atc ttt ggc ccc cgg 248 Ile Phe Gly Pro Arg 249 65 251 cta gat ctt tgt cgg 252 Leu Asp Leu Cys Arg 253 80 255 cta gaa gcc aag cgg 256 Leu Glu Ala Lys Arg 257 100 259 ctc aag att gaa gcc 260 Leu Lys Ile Glu Ala 261 115 263 ctg ctg cag ctc aag 264 Leu Leu Gln Leu Lys 265 130 267 gag ctg atg gcc cag 268 Glu Leu Met Ala Gln 269 145	ned Alg lip Sel	25	30										
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243 cac tat tac ctc acc 244 His Tyr Tyr Leu Thr 245 50 247 atc ttt ggc ccc cgg 248 Ile Phe Gly Pro Arg 249 65 251 cta gat ctt tgt cgg 252 Leu Asp Leu Cys Arg 253 80 255 cta gaa gcc aag cgg 256 Leu Glu Ala Lys Arg 257 100 259 ctc aag att gaa gcc 260 Leu Lys Ile Glu Ala 261 263 ctg ctg cag ctc aag 264 Leu Leu Gln Leu Lys 265 130 267 gag ctg atg gcc cag 268 Glu Leu Met Ala Gln 269 145	ene lie lie Let 4		45										
244 His Tyr Tyr Leu Thr 245 50 247 atc ttt ggc ccc cgg 248 Ile Phe Gly Pro Arg 249 65 251 cta gat ctt tgt cgg 252 Leu Asp Leu Cys Arg 253 80 255 cta gaa gcc aag cgg 256 Leu Glu Ala Lys Arg 257 100 259 ctc aag att gaa gcc 260 Leu Lys Ile Glu Ala 261 115 263 ctg ctg cag ctc aag 264 Leu Leu Gln Leu Lys 265 130 267 gag ctg atg gcc cag 268 Glu Leu Met Ala Gln 269 145	= -			102									
245 50 247 atc ttt ggc ccc cgg 248 Ile Phe Gly Pro Arg 249 65 251 cta gat ctt tgt cgg 252 Leu Asp Leu Cys Arg 253 80 255 cta gaa gcc aag cgg 256 Leu Glu Ala Lys Arg 257 100 259 ctc aag att gaa gcc 260 Leu Lys Ile Glu Ala 261 115 263 ctg ctg cag ctc aag 264 Leu Leu Gln Leu Lys 265 130 267 gag ctg atg gcc cag 268 Glu Leu Met Ala Gln 269 145				193									
247 atc ttt ggc ccc cgg 248 Ile Phe Gly Pro Arg 249 65 251 cta gat ctt tgt cgg 252 Leu Asp Leu Cys Arg 253 80 255 cta gaa gcc aag cgg 256 Leu Glu Ala Lys Arg 257 100 259 ctc aag att gaa gcc 260 Leu Lys Ile Glu Ala 261 115 263 ctg ctg cag ctc aag 264 Leu Leu Gln Leu Lys 265 130 267 gag ctg atg gcc cag 268 Glu Leu Met Ala Gln 269 145	THI Let ASP GIO	=											
248 Ile Phe Gly Pro Arg 249 65 251 cta gat ctt tgt cgg 252 Leu Asp Leu Cys Arg 253 80 255 cta gaa gcc aag cgg 256 Leu Glu Ala Lys Arg 257 100 259 ctc aag att gaa gcc 260 Leu Lys Ile Glu Ala 261 115 263 ctg ctg cag ctc aag 264 Leu Leu Gln Leu Lys 265 130 267 gag ctg atg gcc cag 268 Glu Leu Met Ala Gln 269 145			50	241									
249 65 251 cta gat ctt tgt cgg 252 Leu Asp Leu Cys Arg 253 80 255 cta gaa gcc aag cgg 256 Leu Glu Ala Lys Arg 257 100 259 ctc aag att gaa gcc 260 Leu Lys Ile Glu Ala 261 115 263 ctg ctg cag ctc aag 264 Leu Leu Gln Leu Lys 265 130 267 gag ctg atg gcc cag 268 Glu Leu Met Ala Gln 269 145				241									
251 cta gat ctt tgt cgg 252 Leu Asp Leu Cys Arg 253 80 255 cta gaa gcc aag cgg 256 Leu Glu Ala Lys Arg 257 100 259 ctc aag att gaa gcc 260 Leu Lys Ile Glu Ala 261 115 263 ctg ctg cag ctc aag 264 Leu Leu Gln Leu Lys 265 130 267 gag ctg atg gcc cag 268 Glu Leu Met Ala Gln 269 145	-	_	ar ras urs var										
252 Leu Asp Leu Cys Arg 253 80 255 cta gaa gcc aag cgg 256 Leu Glu Ala Lys Arg 257 100 259 ctc aag att gaa gcc 260 Leu Lys Ile Glu Ala 261 115 263 ctg ctg cag ctc aag 264 Leu Leu Gln Leu Lys 265 130 267 gag ctg atg gcc cag 268 Glu Leu Met Ala Gln 269 145	70	75		200									
253 80 255 cta gaa gcc aag cgg 256 Leu Glu Ala Lys Arg 257 100 259 ctc aag att gaa gcc 260 Leu Lys Ile Glu Ala 261 115 263 ctg ctg cag ctc aag 264 Leu Leu Gln Leu Lys 265 130 267 gag ctg atg gcc cag 268 Glu Leu Met Ala Gln 269 145				289									
255 cta gaa gcc aag cgg 256 Leu Glu Ala Lys Arg 257 100 259 ctc aag att gaa gcc 260 Leu Lys Ile Glu Ala 261 115 263 ctg ctg cag ctc aag 264 Leu Leu Gln Leu Lys 265 130 267 gag ctg atg gcc cag 268 Glu Leu Met Ala Gln 269 145	-												
256 Leu Glu Ala Lys Arg (257 100) 259 ctc aag att gaa gcc (260 Leu Lys Ile Glu Ala (261 115) 263 ctg ctg cag ctc aag (264 Leu Leu Gln Leu Lys (265 130) 267 gag ctg atg gcc cag (268 Glu Leu Met Ala Gln (269 145)	85	90	95	227									
257 100 259 ctc aag att gaa gcc 260 Leu Lys Ile Glu Ala 261 115 263 ctg ctg cag ctc aag 264 Leu Leu Gln Leu Lys 265 130 267 gag ctg atg gcc cag 268 Glu Leu Met Ala Gln 269 145				337									
259 ctc aag att gaa gcc 260 Leu Lys Ile Glu Ala 261 115 263 ctg ctg cag ctc aag 264 Leu Leu Gln Leu Lys 265 130 267 gag ctg atg gcc cag 268 Glu Leu Met Ala Gln 269 145	GIN GIU LEU ASI		-										
260 Leu Lys Ile Glu Ala (261 115) 263 ctg ctg cag ctc aag (264 Leu Leu Gln Leu Lys (265 130) 267 gag ctg atg gcc cag (268 Glu Leu Met Ala Gln (269)	.	105	110	205									
261 115 263 ctg ctg cag ctc aag c 264 Leu Leu Gln Leu Lys 2 265 130 267 gag ctg atg gcc cag c 268 Glu Leu Met Ala Gln 2 269 145				385									
263 ctg ctg cag ctc aag 264 Leu Leu Gln Leu Lys 265 130 267 gag ctg atg gcc cag 268 Glu Leu Met Ala Gln 269 145													
264 Leu Leu Gln Leu Lys 2 265 130 267 gag ctg atg gcc cag 2 268 Glu Leu Met Ala Gln 2 269 145	120		125	422									
265 130 267 gag ctg atg gcc cag a 268 Glu Leu Met Ala Gln 2 269 145				433									
267 gag ctg atg gcc cag 268 Glu Leu Met Ala Gln 269 145													
268 Glu Leu Met Ala Gln 2 269 145	135		10										
269 145				481									
	_		ro Ile Arg Leu										
	150	155											
271 ctc cct gag aag gat				529									
272 Leu Pro Glu Lys Asp	Asp Ala Gly Leu	Pro Pro Pro Ly	ys Val Thr Arg										

RAW SEQUENCE LISTING DATE: 03/13/2002 PATENT APPLICATION: US/10/009,178 TIME: 13:58:37

Input Set : A:\10009178.txt

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	276	Gly	Cys	Arg	Leu	His	Asn	Cys	Phe	Asp	Tyr	Ser	Arg	Cys	Pro	Leu	Thr	
	277					180					185					190		
	279	tct	ggc	ttt	cct	gtc	ttc	gtc	tat	gac	agt	gac	cag	ttt	gcc	ttt	ggg	625
	280	Ser	Gly	Phe	Pro	Val	Phe	Val	Tyr	Asp	Ser	Asp	Gln	Phe	Āla	Phe	Gly	
	281		_		195					200		_			205		_	
	283	agc	tac	ctg	gac	cct	ttg	gtc	aag	cag	gct	ttt	cag	gct	aca	gtg	aga	673
							Leu											
	285			210					215					220				
	287	gcc	aac	gtt	tat	gtt	aca	gaa	aat	gca	gcc	atc	gcc	tgc	ctg	tat	gtg	721
	288	Ala	Asn	Val	Tyr	Val	Thr	Glu	Asn	Ala	Ala	Ile	Ala	Cys	Leu	Tyr	Val	
	289		225					230					235					
	291	gtg	tta	gtg	gga	gag	ata	caa	gag	ccc	gct	gtg	ctg	cag	cct	gcc	gac	769
	292	Val	Leu	Val	Gly	Glu	Ile	Gln	Glu	Pro	Ala	Val	Leu	Gln	Pro	Ala	Asp	
	293	240					245					250					255	
	295	ctt	gag	aag	cag	ctg	cat	tct	ctg	cca	cac	tgg	agg	aca	gac	gga	cac	817
	296	Leu	Glu	Lys	Gln	Leu	His	Ser	Leu	Pro	His	Trp	Arg	Thr	Asp	Gly	His	
	297					260					265					270		
	299	aac	cat	gtc	atc	atc	aat	ctg	tcc	cgg	aag	tca	gac	aca	caa	aat	tta	865
	300	Asn	His	Val	Ile	Ile	Asn	Leu	Ser	Arg	Lys	Ser	Asp	Thr	Gln	Asn	Leu	
	301				275					280					285			
	303	ctg	tac	aat	gtc	agt	aca	ggt	cgg	gcc	atg	gtg	gcc	cag	tct	acc	ttc	913
	304	Leu	Tyr	Asn	Val	Ser	Thr	Gly	Arg	Ala	Met	Val	Ala	Gln	Ser	Thr	Phe	
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			_	_			aga											961
	308	Tyr		Ala	Gln	\mathtt{Tyr}	Arg		Gly	Phe	Asp	Leu		Val	Ser	Pro	Leu	
	309		305					310					315					
							gaa											1009
			His	Ala	Met	Ser	Glu	Pro	Asn	Phe	Met		Ile	Pro	Pro	Gln		
		320					325					330					335	
•			-	_			tat					-			_			1057
		Pro	Val	Lys	Arg	_	Tyr	Leu	Phe	Thr		Gln	Gly	Glu	Lys		Glu	
	317					340					345					350		
				_		_	ctt	_		_	_				-	_	-	1105
		Ser	Leu	Arg		Ser	Leu	GIn	Glu		Arg	Ser	Phe	Glu		GLu	Met	
	321				355					360					365			1150
							gcc											1153
		GIU	GTÄ		Pro	Pro	Ala	Asp		Asp	Asp	Arg	тте		Ата	Thr	Leu	
	325			370					375					380				1001
		_	-	_	_	_	agc	_		_	_		_	-				1201
		гуѕ		val	GIN	Asp	Ser	_	Leu	Asp	GIN	vaı		vaı	GIU	Pne	rnr	
	329		385					390					395					1040
		_			_		aag		-	_					_	_	-	1249
		_	туѕ	ASN	GIN	Pro	Lys	Pro	ser	ьeu	PLO		GIU	тгр	нта	ьeu	_	
	333		~~~	~~~	~~~	~~~	405	a+-	~~~	++-	a+ ~	410	a+ -	+~~	266	++~	415	1207
							cgg											1297
		дт Х	GIU	Arg	GIU		Arg	ьеи	GIU	ьeu		ту	ьeu	Ser	TIII		HIG	
	337					420					425					430		

VERIFICATION SUMMARY

DATE: 03/13/2002

PATENT APPLICATION: US/10/009,178

TIME: 13:58:38

Input Set : A:\10009178.txt

Output Set: N:\CRF3\03132002\J009178.raw

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date